



COMPUTATIONAL BIOLOGY WEBINAR @ IMSc

DATA-DRIVEN APPROACHES TO UNDERSTAND AND ADDRESS ANTIMICROBIAL RESISTANCE (AMR)

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Antimicrobial resistance (AMR) is one of the most serious global public health threats as it compromises successful treatment of deadly infectious diseases. The Global Action Plan for AMR (GAP-AMR) has identified better awareness of AMR and strengthening understanding of AMR as two critical verticals. The AB-OpenLab is focussing their research efforts in these verticals of the GAP-AMR. In order to raise awareness on AMR, we have developed a video game on antimicrobial resistance which has an AI bot integrated into the gaming environment as a guide for the players to interact and learn concepts of AMR at their own pace. We will showcase the first version of our game during the talk. We shall then discuss our latest approach to identification of new chemotypes on validated targets as a new lead generation strategy. The talk will discuss some of the recent results on identification of novel chemotypes of mycobacteria and experiments on utilizing collective intelligence for generating resources for drug discovery of mycobacteria and emerging pathogens.

GOOGLE MEET LINK:

meet.google.com/gac-wgyq-tpv